Work Orde	er ID 56672 11:29:55 AM										Page 1	
Item ID: Revision ID:	D412-742-043			Accept					Setup	Start		
Item Name:	Replacement Float Skidtube									Stop		
Start Date: Required Date:	3/04/10 Start Qty: 1 3/12/10 Req'd Qty: 1				Cust Iter Custome							100 1101 1101
Reference:												
Approvals:	Process Plan:	Date:		Tooling:		Date:			Run	Start Stop		
	QC:	Date:		SPC (Y/N):		Date:				Stop		
Sequence ID/ Work Center II	Operation Description			Set Up/ Run Hours	Draw Numbe	Draw r Rev.	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr											· · · · · · · · · · · · · · · · · · ·
D3391	Rev H											
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Dart Aerosp	ace Ltd	
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W/O:			\MO	RK ORDER CHANG	EC		··		
DATE	STEP	PRO	OCEDURE CHAI		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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· <u></u>									
Part No):	PAR #:	Fault Cated	iorv:	NCR: Yes	No DQA:		Date:	
Resolution:						*			
NCR:			WORK ORDE	ER NON-CONFORMA	ANCE (NCI	R)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Description Chief Eng	on B Sign Date	Verificat Section		Approval Chief Eng	Approval QC Inspector
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Itama	TD.	
Item	ID:	

D412-742-043

Accept



Setup Start

Stop



Revision ID:

Item Name:

Replacement Float Skidtube

Start Date:

Required Date: 3/12/10

3/04/10

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Draw

Number

Reference:

Approvals:							
		9	v	ro	n	n	A

Process Plan:

QC: _____ Date: ____

Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run Start

Stop



Sequence ID/

Work Center ID

110

HandFinish

Hand Finishing

Operation **Description**

Set Up/ **Run Hours**

0.00

Draw Rev.

Plan Accept Code Qty

Reject **Qty**

Reject Number

Insp. Stamp

HandFinishing

0.00

1-Install tubes together and seal them all the way around using Sikaflex 241/291. Ensure tube ends line-up with saddle holes for proper alignment, using 7/16" "T" Pins. A/R□□Sikaflex-241/-291□M 1/2439

Expiry date: 🗆 / 🗸 💍

2-Install wearplates as per Dwg D3391. Ensure that plastic washers are against wearplate, then topped with the SS washer. Seal all bolts with sikaflex exept ones with inserts on inside of tube ,hand tighten only bolts with no sikaflex.

Expiry date: []

3-Remove "T" pins once sikaflex is dry.

4-Coat all exposed hardware with LPS Procyon. Remove any excess off with MEK degreaser.

A/R DLPS Procyon D 10475

BL 10-4-22

													
W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
Part No	:	egory:	NCR: Yes No DQA: Date:										
Resolution:													
NCR:		\	WORK ORI	DER NON-CONFORM	IANCE	(NCR)	H						
DATE	CTED	Description of NC			ction B	Verificati			Approval	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti		Chief Eng	QC Inspector			
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Work Order ID 56672

March 4, 2010 11:30:00 AM

Required Date: 3/12/10



Page 3

Item ID:

D412-742-043

Accept

Setup Start

Stop

Start



Revision ID:

Item Name:

Replacement Float Skidtube

Start Date:

3/04/10

Start Qty: 1.00

Req'd Qty: 1.00



Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Date: _____

Tooling:

SPC (Y/N):

Date:

Date:

Stop

Run

Sequence ID/ **Work Center ID**

120

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours**

Draw Number Draw Rev.

Plan Code

Accept Qty

Reject Reject Number Stamp Qty

Insp.

Memo

0.00

0.00

0.00

130

Packaging

Packaging

Packaging

Memo

0.00

Identify and pack for shipping as per PPP D412-742-043

Location:

PPP Rev:_

140

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

March 4, 2010 11:29:43 AM

Work Order ID: 56672

Parent Item:

D412-742-043

Comments:

Parent Item Name: Replacement Float Skidtube IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D

IPP Rev:C 07-05-28 As per Rev F

IPP Rev:D 07-12-04

ECN 1072

Purchased



KJ/JLM□

EC JLM

No

DD verified by:JLM

113644

113749

114103

110 Each

1,333.000 24.0000

Start Date: 3/04/10

Start Qty: 1.00

BOLT

AN3C4A

Warehouse Location	Loc Qty	Loc Code
Main Warehouse		
ST 114330	1333	
112314	13	
112720	12	
112724	3	
112829	1	
112991	2	
113121	64	
113226	344	

294

100

500

Each

AN3C6A

BOLT

Purchased

No

730.0000 12.0000

Warehouse Loc Qty Loc Code Location Main Warehouse ST 730

110

ن 111982 730 12 BL 10-4-22

Page 1

Required Date: 3/12/10

Required Qty: 1.00

24. BR 10-4-22

Duit Ac	Ospace	Liu							
W/O:			WO	RK ORDER CHANGI	ES				
DATE	STEP	PRO	OCEDURE CHAN	IGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No: PAR #:			Fault Categ	jory:	NCR: Yes	No DQ	A:	_ Date: _	
Resolution:			Disposition	l:	_ QA: N/C C	losed:		Date: _	
NCR:			WORK ORDE	R NON-CONFORMA	NCE (NC	₹)			
DATE	STEP	Description of NC		Corrective Action Section		Verific	ation	Approval	Approval
DAIL	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign of Date	Secti		Chief Eng	QC Inspector
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Picklist Prin March 4, 2010 11									•	Page 2
ork Order ID:	56672									
rent Item:	D412-742-043									
rent Item Name:	Replacement Float Skidtube			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		St	art Date:	3/04/10	Required Dat	e: 3/12/10
mments:	IPP Rev A□05.10.13 □ New Issue □ IPP Rev B□06.02.13 □ ECN 773 dwg @ IPP Rev: C 07-05-28 As per Rev F IPP Rev: D 07-12-04 ECN 1072) rev.D	KJ/JLM□ EC JLM DD verified by:JLM	1		S	tart Qty:	1.00	Required Qt	
3C7A 	Purchased	No		110	Each	493.0000	8,0000			
)	Warehouse Location Main Warehouse ST 105906		493 21	Loc Code			_	
960C10L 	Purchased .	No	107376 113149	110	252 220 Each	388.0000	44.0000		_BL 10- 	4-22
	NAS1149COS30	P.	Warehouse Location OFFSHORE FG 103585 Main Warehouse ST 112116 112612	!.	100 100 288 128 160	<u>Loc Code</u>		<u> </u> 44	' bl 10 - -	1-22
3391-021	Manufactured Manufactured	No No		110 56	Each 495	0.0000	1.0000		_ //	BL 10-4-6

W/O:		WORK ORDER CHANGES										
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No: PAR #:			Fault Cate	gory:	NCR: Yes	No D G	A:	Date: _				
	Resolution: Disposition:				QA: N/C (Closed:		Date:				
NCR:			WORK ORDE	R NON-CONFORM	ANCE (NC	R)						
DATE	STEP	Description of NC		tion B		cation	Approval	Approval				
DAIL	012.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date		tion C	Chief Eng	QC Inspector			
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March 4, 2010 11:29:44 AM

Page 3

BL 10-41-22

Required Date: 3/12/10

Required Qty: 1.00

Work Order ID: 56672

Parent Item Name:

Parent Item:

D412-742-043

Comments:

Replacement Float Skidtube

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D

IPP Rev:C 07-05-28 As per Rev F

IPP Rev:D 07-12-04

EC

ECN 1072

Manufactured

KJ/JLM□

JLM

DD verified by:JLM

Manufactured No 110

Each

1.0000 2.0000

Loc Code

Start Date: 3/04/10

Start Qty: 1.00

Mid Tube Assembly

Warehouse	
Location	
Main Wandana	

Main Warehouse

ST 40522

53938

1 110 Each

2

Loc Qty

3.0000 1.0000



D3391-025

Aft Tube Assembly

Warehouse	

Loc Qty

Loc Code

Location

Main Warehouse

39129 48122

54703

3

D BR10-4-22

										
W/O:			WO	RK ORDER CHANG	GES					
DATE	STEP	PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
				41-14-1-National Research						
Part No	:	PAR #:	Fault Categ	jory:	_ NCR	: Yes 1	10 DQ /	A :	_ Date:	····
Resolution: Disposition:										
NCR:			WORK ORDE	R NON-CONFORM	ANCE	(NCR))			
DATE	STEP	Description of NC		Corrective Action Section B			Verification Approve		Approval	Approval
DAIL	J.L.	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Secti	on C	Chief Eng	QC Inspector
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March 4, 2010 11:29:45 AM

Page 4

Required Date: 3/12/10

Required Qty: 1.00

Work Order ID: 56672

Parent Item:

D412-742-043

Parent Item Name:

Replacement Float Skidtube

Comments:

IPP Rev A□05.10.13□New Issue□

IPP Rev B □ 06.02.13 □ ECN 773 dwg @ rev.D IPP Rev:C 07-05-28 As per Rev F

ECN 1072

IPP Rev:D 07-12-04

Manufactured No



KJ/JLM□

EC

JLM

DD verified by:JLM

110

Each

19.0000

1.0000

Start Date: 3/04/10

Start Qty: 1.00

Wearshoe

D3564-1

Warehouse	Loc Oty	Loc Code	
Location			
OFFSHORE			_
FG	2		<u>-</u>
33798	2		
Main Warehouse			
ST	17		·
47531	1		
50270	1		- byl 1 1 20
51676	15		DK/0-4-22

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W/O:			WO	RK ORDER CHAN	GES									
DATE	STEP	PROCEDURE CHANGE				Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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	Res		: Disposition:											
NCR:		,	WORK ORDE	R NON-CONFORM	MANCE	(NCR)							
DATE	STEP	Description of NC	Initial	Section B ion Sign &		Verification		Approval	Approval					
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						•								
			-											

March 4, 2010 11:29:45 AM

Page 5

Work Order ID: 56672

Parent Item:

D412-742-043

Parent Item Name: Replacement Float Skidtube

Comments:

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D IPP Rev:C 07-05-28 As per Rev F IPP Rev:D 07-12-04 ECN 1072

KJ/JLM□

EC

JLM

DD verified by:JLM

Start Date: 3/04/10

Start Qty: 1.00

Required Date: 3/12/10

Required Qty: 1.00

D3564-3

Manufactured

110

Each

20.0000 1.0000

Wearshoe	

Warehouse	Loc Qty	Loc Code	
Location			
OFFSHORE			
FG	2		
33764	2		
Main Warehouse			
FP /	6		
50113	6		1 bl 10-4-22
Main Warehouse			
FP19	11		
55489	11		<u> </u>
Main Warehouse			
ST	1		
46445	1		

		— - - -									
W/O:			WC	RK ORDER CHANG	ES						
DATE	STEP	PROCEDURE CHANGE				Date Qt	y Approval Chief Eng / Prod Mgr	Approval QC Inspector			
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Part No	:	PAR #:	Fault Cate	gory:	_ NCR: Yes	No DQA:	Date: _				
	Re	esolution:	Disposition	າ:	_ QA: N/C Cld	QA: N/C Closed: Date:					
NCR:		,	WORK ORDI	R NON-CONFORMA	ANCE (NCR)					
DATE	CTED	Describtion of NC		Corrective Action Sect	Verificatio	n Approval	Approval				
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector			
			!								
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March 4, 2010 11:29:46 AM

Page 6

Required Date: 3/12/10

Required Qty: 1.00

Work Order ID: 56672

Parent Item:

D412-742-043

Parent Item Name:

Replacement Float Skidtube

Comments:

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D EC

IPP Rev:C 07-05-28 As per Rev F

IPP Rev:D 07-12-04

ECN 1072

KJ/JLM□

JLM DD verified by:JLM

D3564-5

Manufactured No

110

Each

37.0000 1.0000

Start Date: 3/04/10

Start Qty: 1.00

Wearshoe

Warehouse	Loc Oty	Loc Code	
Location		, ,	
OFFSHORE			
FG	2		
34806	2		
Main Warehouse			
FP19	33		
51925	1		
54772	7		
55024	12		
55333	13		John 10-4-22
Main Warehouse	•		• /
ST	2		·
45824	1		
47433	1		

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W/O:			WO	RK ORDER CHANG	ES				
DATE	STEP	PRO	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	:	PAR #:	Fault Categ	gory:	_ NCR: Yes	No DQ	A:	_ Date: _	
Resolution:		esolution:	Disposition	_ QA: N/C C	losed:		Date: _		
NCR:			WORK ORDE	R NON-CONFORMA	ANCE (NCI	R)			
DATE	OTED	Description of NC	Corrective Action S		on B	Verific	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Secti	on C	Chief Eng	QC Inspector
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March 4, 2010 11:29:46 AM

Page 7

Required Date: 3/12/10

Required Qty: 1.00

Work Order ID: 56672

Parent Item:

D412-742-043

Parent Item Name:

Replacement Float Skidtube

Comments:

IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D EC IPP Rev:C 07-05-28 As per Rev F

IPP Rev:D 07-12-04 ECN 1072



KJ/JLM□

JLM

DD verified by:JLM

D3566-1

Manufactured

110

Each

25.0000 2.0000

Start Date: 3/04/10

Start Qty: 1.00

Gasket

Warehouse Location	Loc Qty	Loc Code	
Main Warehouse FP 57257	20		2 Bl10-4-22
52512	3		
54480	1	•	
55011	1		
55320 .	15		
Main Warehouse			
ST	5		
46349	1		
51218	1		
51259	3		

W/O:			WO	RK ORDER CHANG	ES					
DATE	STEP	PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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								1		
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Part No: PAR #: Fault Category:										
	Re				QA: N/C Closed: Date:					
NCR:			WORK ORDE	R NON-CONFORMA	ANCE	(NCR)			
DATE	STEP	Description of NC		Corrective Action Section B			Verific		Approval	Approval
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Page 8

March 4, 2010 11:29:47 AM

Work Order ID: 56672

Parent Item:

Comments:

D412-742-043

Parent Item Name:

Replacement Float Skidtube IPP Rev A□05.10.13□New Issue□

IPP Rev B□06.02.13□ECN 773 dwg @ rev.D

IPP Rev:C 07-05-28 As per Rev F

IPP Rev:D 07-12-04 ECN 1072

KJ/JLM□

EC

JLM

DD verified by:JLM

Start Date: 3/04/10

Start Qty: 1.00

Required Date: 3/12/10

Required Qty: 1.00

D3566-5

Manufactured

110

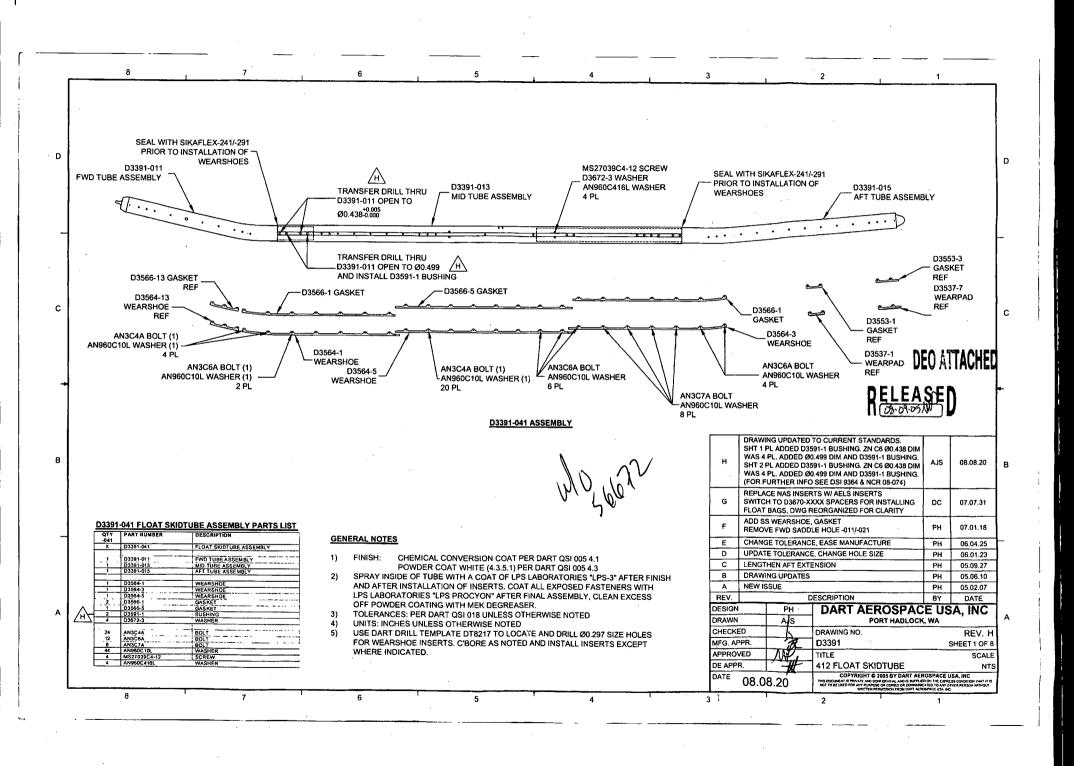
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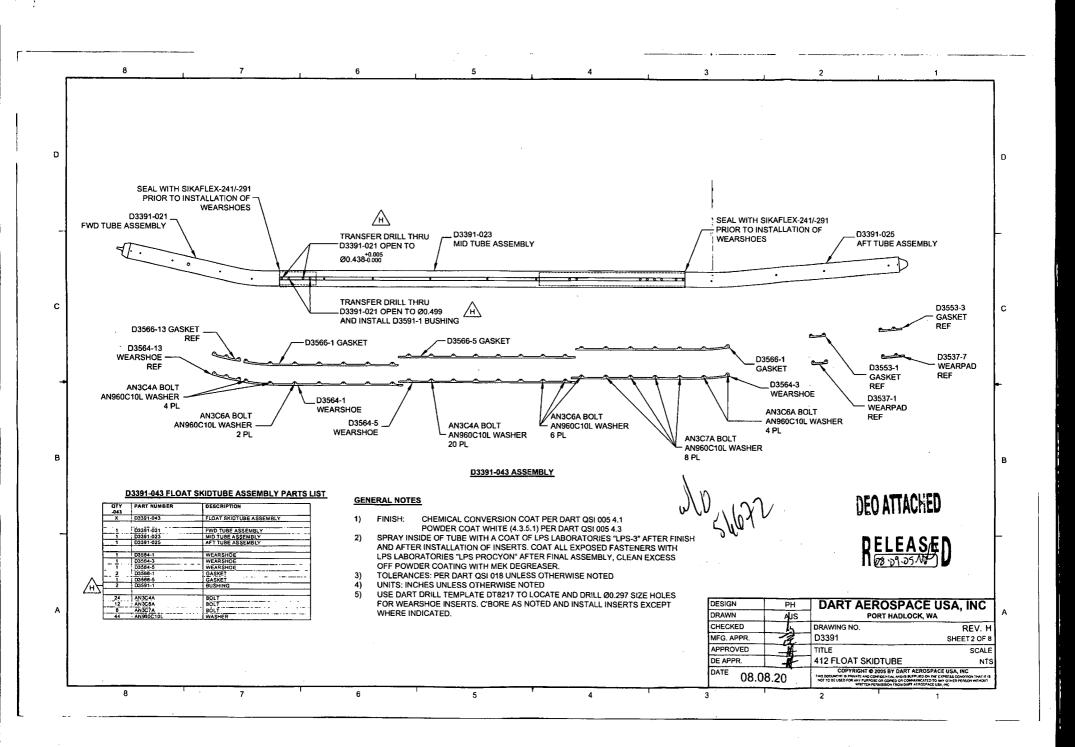
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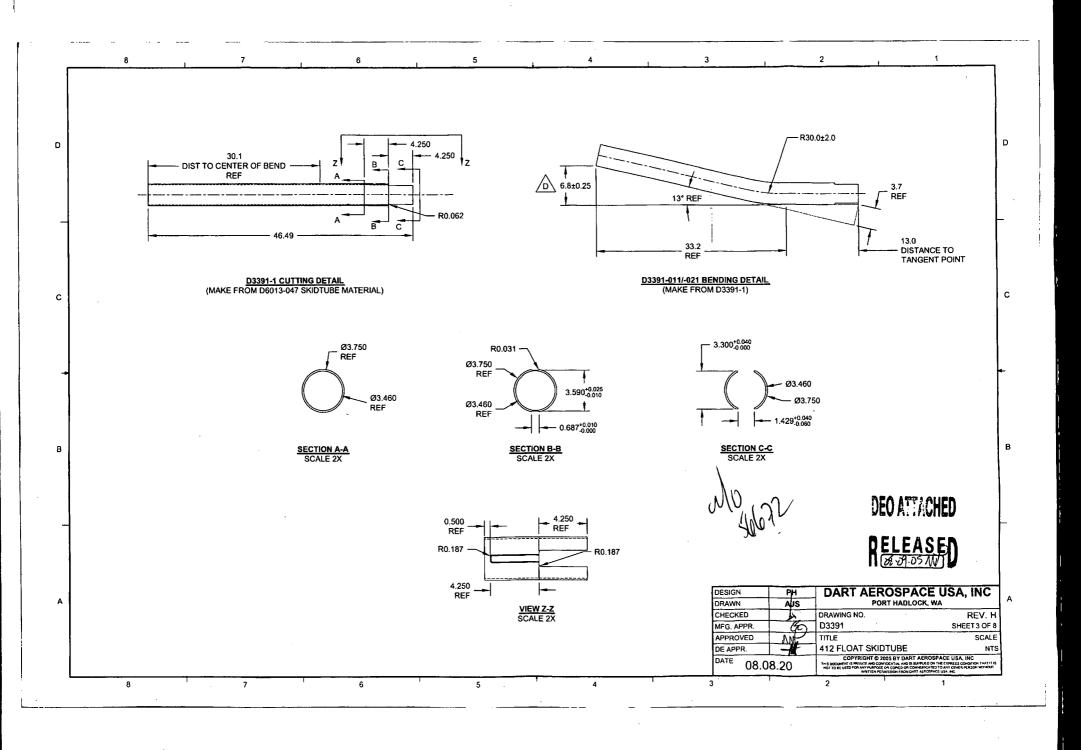
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Gasket			

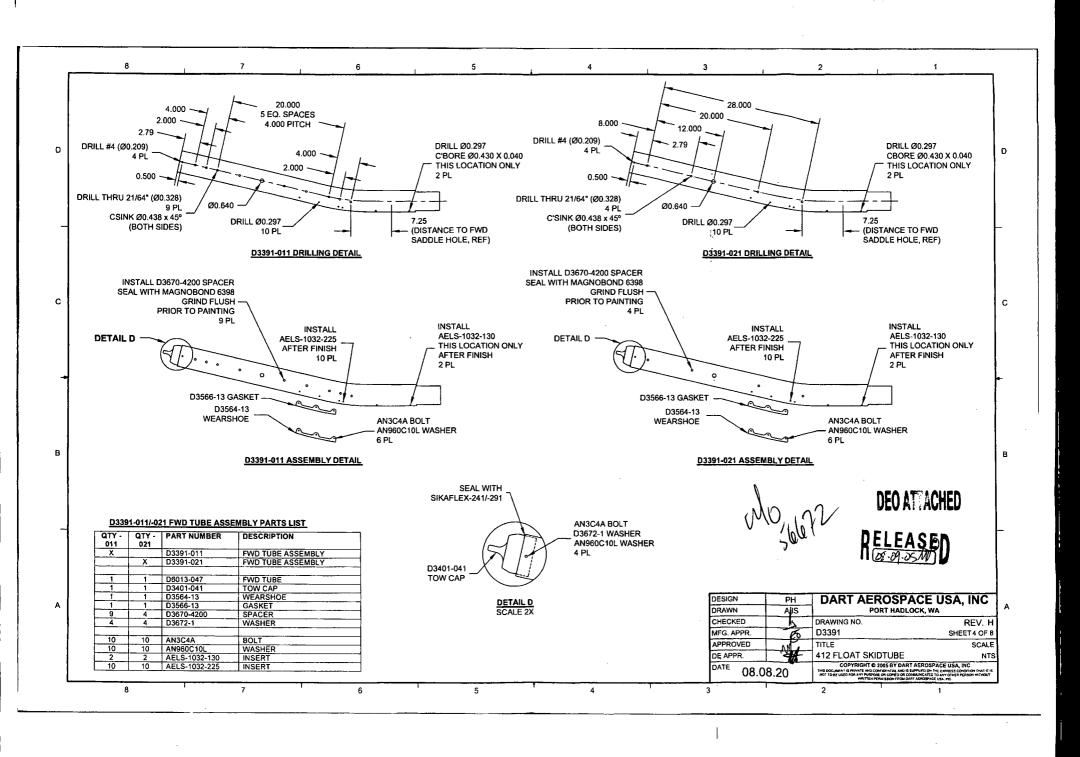
Warehouse Location	Loc Oty	Loc Code	
Main Warehouse FP19 56829	23		1 St10-4-22
55026	11		
55335	12		
Main Warehouse			
ST	4		
36113	1		
46186	1		
47318	1		
51260	1		

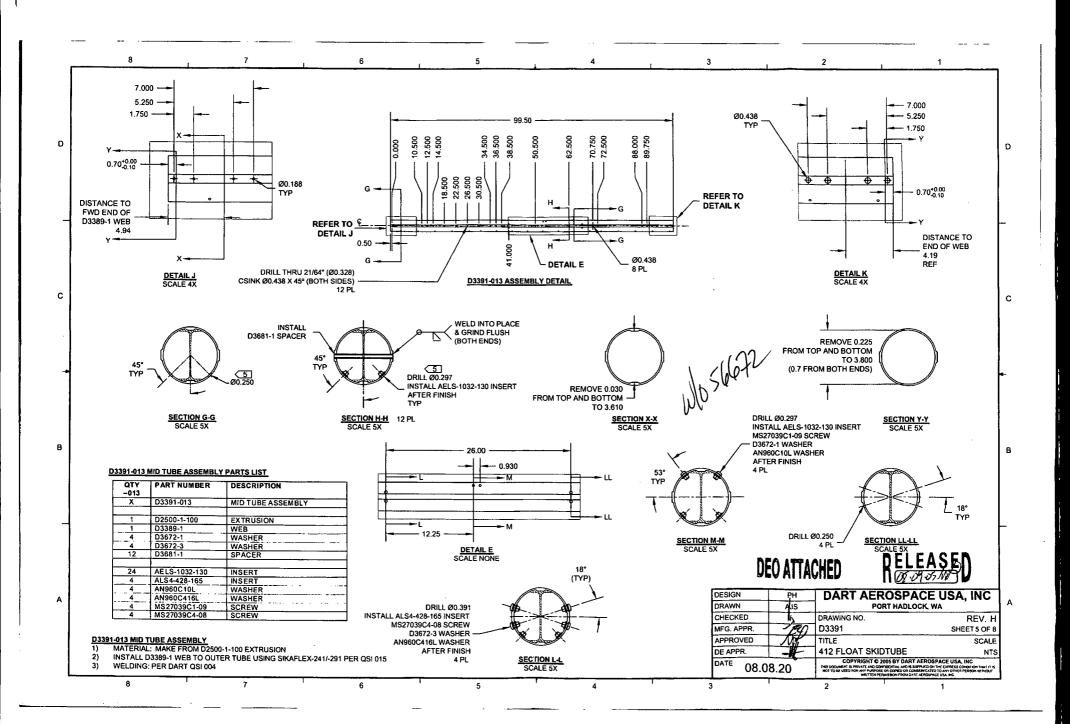
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W/O:			W	ORK ORDER CHANGES	3				
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Part No		PAR #:							
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NCR:	٠	V.	ORK ORD	ER NON-CONFORMAN	CE (NCR	ł)			
DATE	STEP	Description of NC	Corrective Action Section B			- Verification		Approval	Approval
	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		Section C	Chief Eng	QC Inspector
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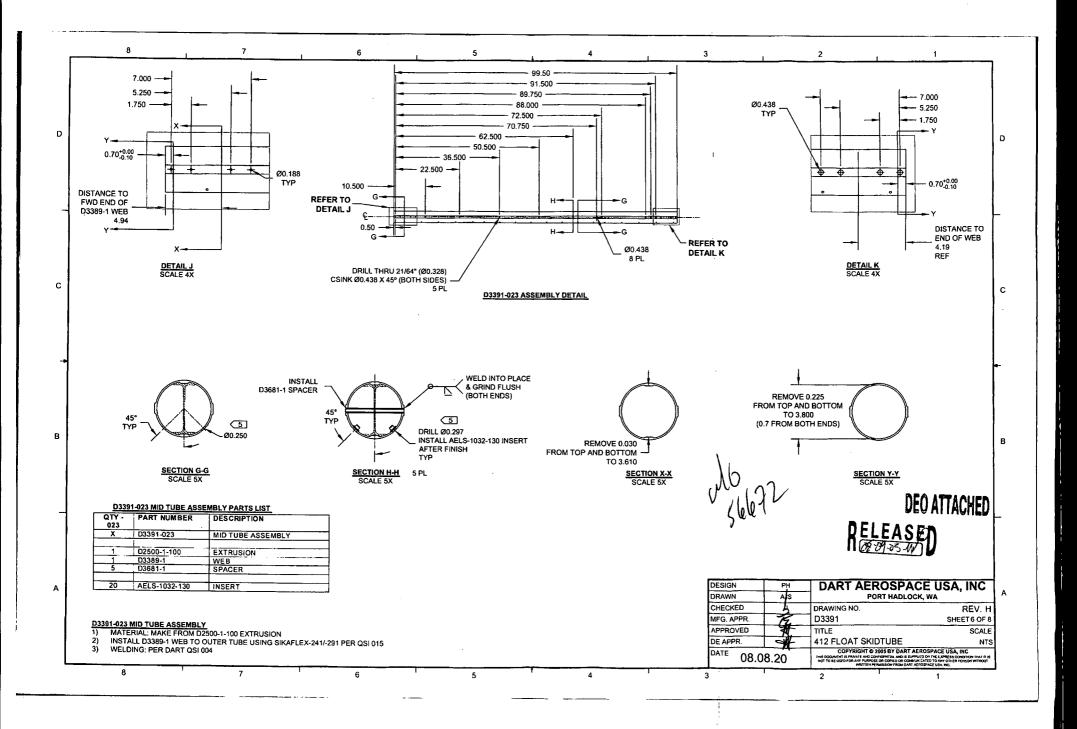


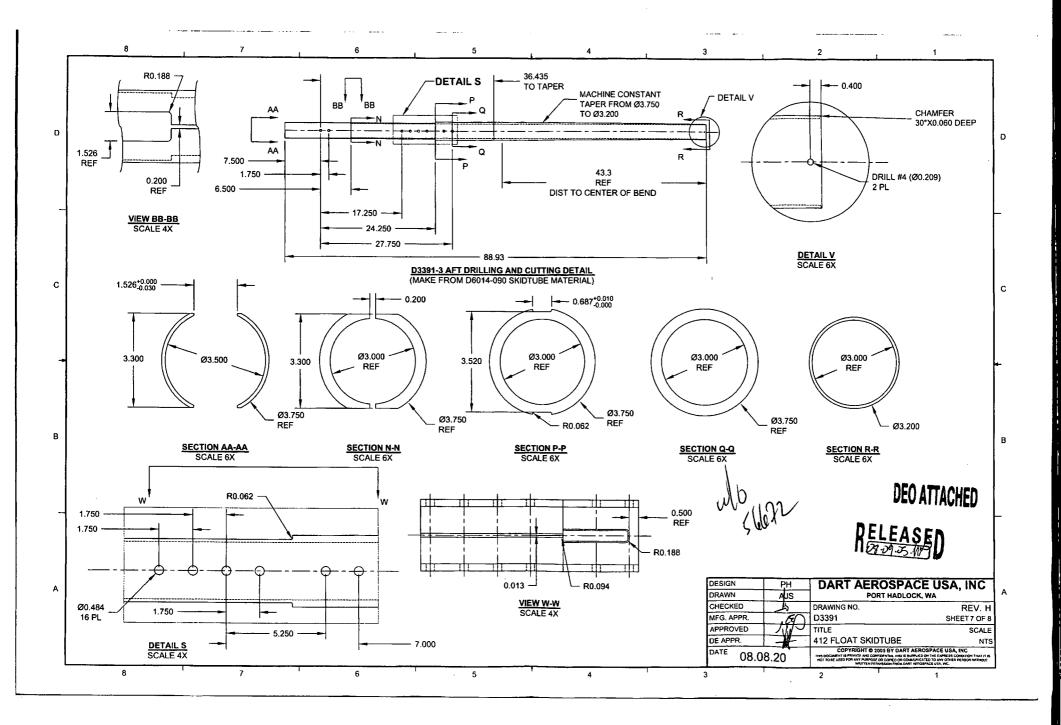


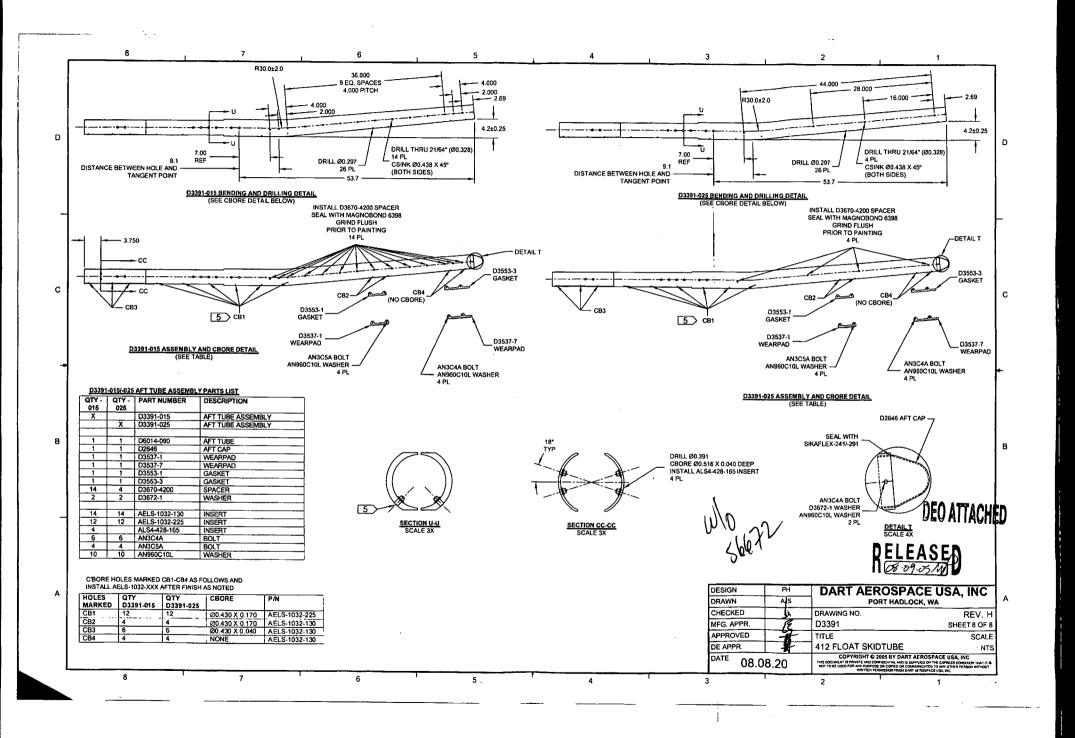












DRAWING	NO.	TITLE		REV. H	DART AEROSPACE US	A, INC D.E.O. NO.	SHEET NO.	SCALE
D3391		412 FLOAT	SKIDTUBE	1	ENGINEERING ORD	D3391-H-1	SHEET 1 OF,1	NTS
DRAWN	G/)	CHECKED		MFG. APPR.	APPROVED MAD	DE APPR.	
DATE	09.09.	23	DATE	04.04.24	DATE 09/09/25	DATE 09/09/30	DATE 09/09/3	

PURPOSE:

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT-OF-LPS LABORATORIES "LPS-3" AFTER FINISH-AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.

PELEASE 2010 -02- 0 2

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